MONTANA FISH, WILDLIFE & PARKS

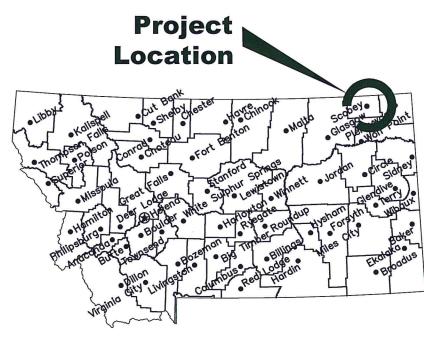
Whitetail Dam Weir Repairs

near Whitetail, MT

#7073704

Project

Location



Location Map

No Coole

North

Vicinity Map

MONTANA FISH, WILDLIFE AND PARKS DESIGN AND CONSTRUCTION

MAILING ADDRESS: PHYSICAL ADDRESS: PO BOX 200701 1522 9th AVENUE HELENA, MT 59620-0701 HELENA, MT 59601 TEL 406.841.4000

TEL 406.841.4000 FAX 406.841.4004

fwp.mt.gov/Doing Business/Design&Construction

DRAWING INDEX

Sheet Number	Sheet Title
1	COVER SHEET
2	SITE PLAN
3	DETAIL SHEET I
3	DETAIL SHEET II
3	DETAIL SHEET III

PHILLIP N.
JAGODA
No. 49280PH

P. Jagoda	4/23/2019	_
DRAWN BY:	DATE:	APPRO
P. Jagoda	4/23/2019	
CHECKED BY:	DATE:	APPRO

		i i		
OVED BY:	DATE:	APPROVED BY:	DATE:	
OVED BY:	DATE:	APPROVED BY:	DATE:	



Cover Sheet Whitetail Dam - Weir Repairs LEGEND

4 2229.32'

EXISTING FEATURES

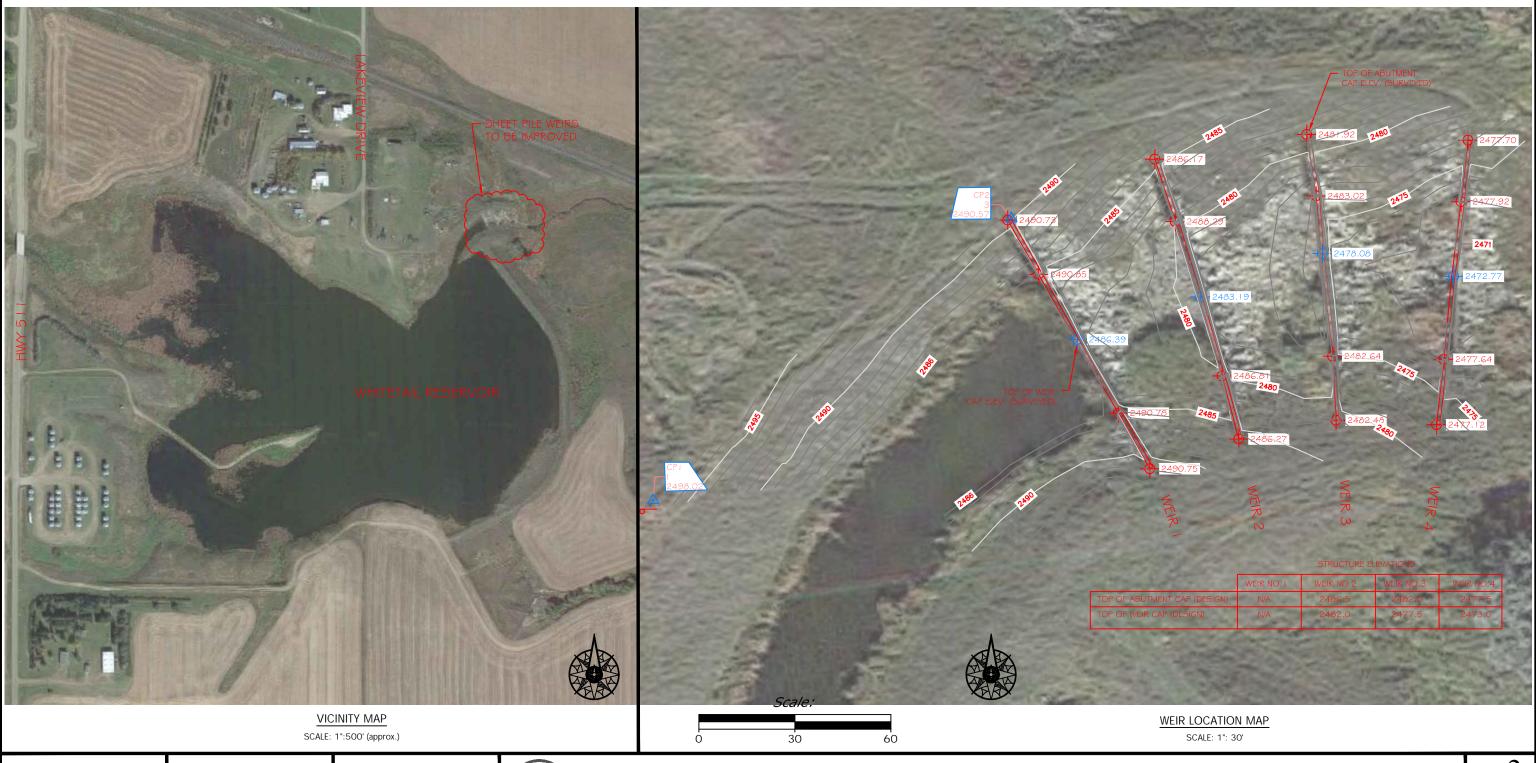
EX. SPOT GRADE

EX. CONTOUR

CONTROL POINT

721288.2380 3012696.8730 2498.02

- 1. TOP OF ABUTMENT & WEIR CAP ELEVATIONS WERE RECORDED BY MT FISH, WILDLIFE & PARKS ON
- VERTICAL CONTROL IS BASED ON NAVD88. HORIZONTAL CONTROL IS MT STATE PLANE.
 ANY UTILITIES DEPICTED ON THESE PLANS ARE IN ACCORDANCE WITH THEIR ACHIEVED "QUALITY LEVELS" AS DEFINED IN THE AMERICAN SOCIETY OF CIVIL ENGINEER'S DOCUMENT ASCE 38, "STANDARD FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA." BEFORE DIGGING, CALL 811 FOR LOCATION OF EXISTING UTILITIES.

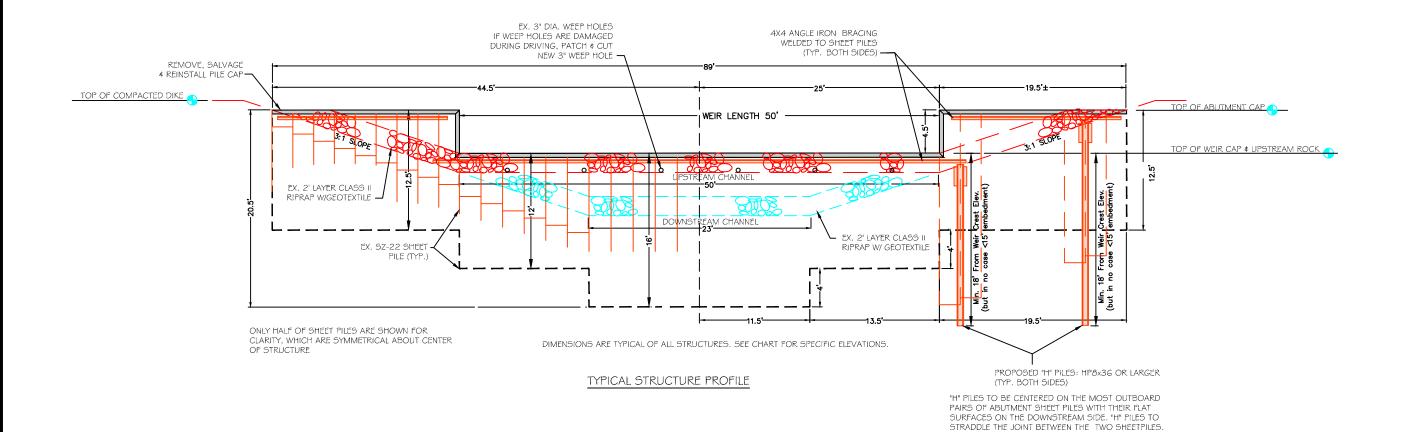


4/23/2019 P. JAGODA P. JAGODA 4/23/2019 CHECKED BY: DATE:

REVISED BY: DATE: APPROVED BY: DATE: DATE: APPROVED BY: APPROVED BY: DATE:



Site Plan Whitetail Dam - Weir Repairs



- I. WEIR & ABUTMENT INFORMATION TAKEN FROM ELECTRONIC PLANS, TITLED "WHITETAIL DAM", PREPARED BY DUCKS UNLIMITED, DATED 8-6-1996.
- 2. ALL WELDS TO BE 1/4" FILLET WELDS (SEE SPECIFICATIONS).
- 3. ALL WELDS SHALL BE TO AWS STANDARDS. WELDS SHALL NOT EXHIBIT CRACKS, UNFILLED CRATERS, SLAG INCLUSIONS, OR POORLY FORMED BEADS. UNDER OR OVER WELDING, MISALIGNMENTS, EXCESSIVE POROSITY OR WARPAGE WILL NOT BE ALLOWED.
- 4. ANY DAMAGE CAUSED TO TOP OF SHEET PILE DURING DRIVING SHALL BE REPAIRED. IF EXTENSIONS TO SHEET PILES ARE REQUIRED DUE TO DAMAGE, BUTT WELDS SHALL BE REQUIRED. PATCH EXIST. AND CUT NEW 3" DIA. WEEP HOLES IN SHEET PILES IF REQUIRED DUE TO DAMAGE.

GENERAL SCOPE OF WORK

PROPOSED WORK IS LIMITED TO STRUCTURES 2, 3, AND 4. STRUCTURE NO. 1 HAS NOT EXHIBITED

(SEE DETAIL III SHEET 5)

- ANY FROST JACKING.
- REMOVE RIPRAP, GEOTEXTILE & FILL MATERIAL AS NECESSARY. REMOVE EXISTING PILE CAPS AND SALVAGE FOR RE-INSTALLATION.
- DRIVE FROST-JACKED SHEET PILES BACK TO DESIGN ELEVATIONS.
- INSTALL H-PILE BRACING AS INDICATED IN DETAILS AT STRUCTURES 2, 3, \$ 4.
 INSTALL 4x4 ANGLE IRON BRACING AND WELD TO SHEET PILES AND H-PILE BRACING.
 WELD ALL SHEET PILES TOGETHER WITH VERTICAL WELDS, MIN. OF 4 FT. OF WELD SHALL BE USED.
- RE-INSTALL AND WELD PILE CAPS AS INDICATED IN DETAILS, NOTES, \$ SPECIFICATIONS.
- 9. REPLACE RIPRAP, GEOTEXTILE & FILL MATERIALS AS NECESSARY.
 10. REFER TO DETAILS, TECHNICAL SPECIFICATIONS, AND BID FORM FOR FULL EXTENT OF PROPOSED WORK.

STRUCTURE FLEVATIONS

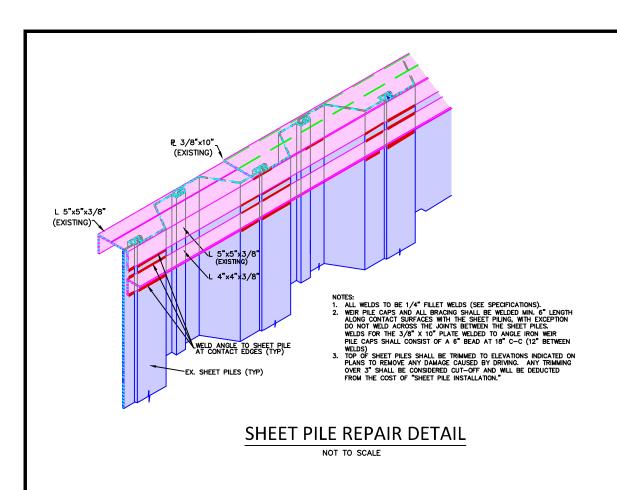
	STRUCTURE NO. I	STRUCTURE NO. 2	STRUCTURE NO. 3	STRUCTURE NO. 4
TOP OF COMPACTED DIKE	N/A	2487.5	2483.0	2478.5
TOP OF ABUTMENT CAP	N/A	2486.5	2482.0	2477.5
TOP OF WEIR CAP ¢ UPSTREAM ROCK	N/A	2482.0	2477.5	2473.0

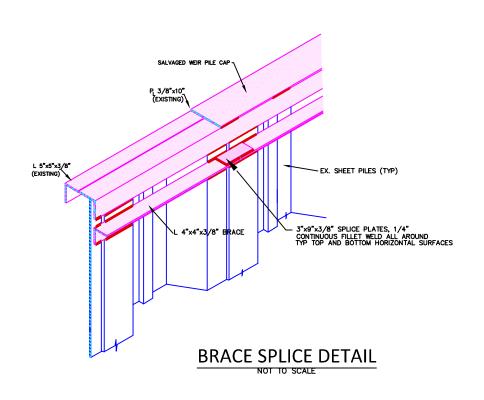
Scale: 10

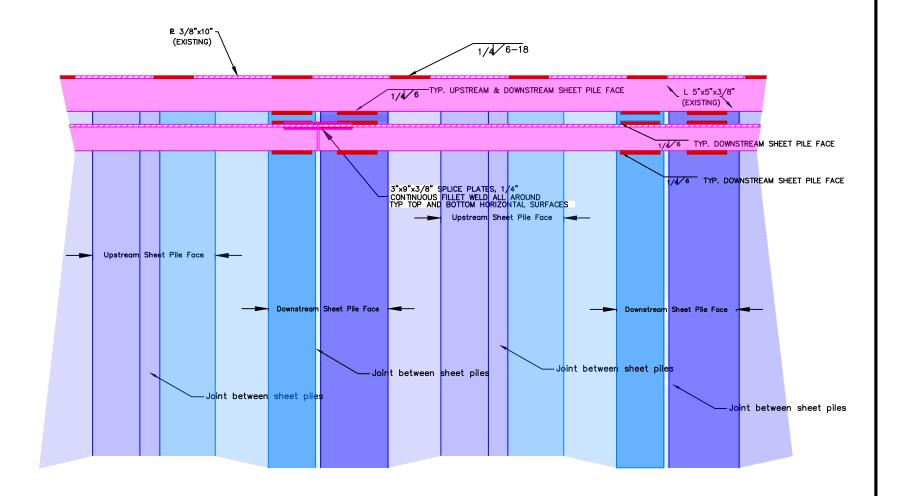
SHEET PILE WEIR REPAIR DETAIL

P. Jagoda 4/23/19		
DRAWN BY: DATE:	REVISED BY: DATE:	APPROVED BY: DATE:
P. Jagoda 4/23/19		
CHECKED BY: DATE:	APPROVED BY: DATE:	APPROVED BY: DATE:

À	MONTANA FISH,	Detail Sheet I - Structure Profile
<i>y</i>	WILDLIFE & PARKS	Detail Sheet I - Structure Profile Whitetail Dam - Weir Repairs







ELEVATION VIEW SHEETPILE CURTAIN FACING UPSTREAM

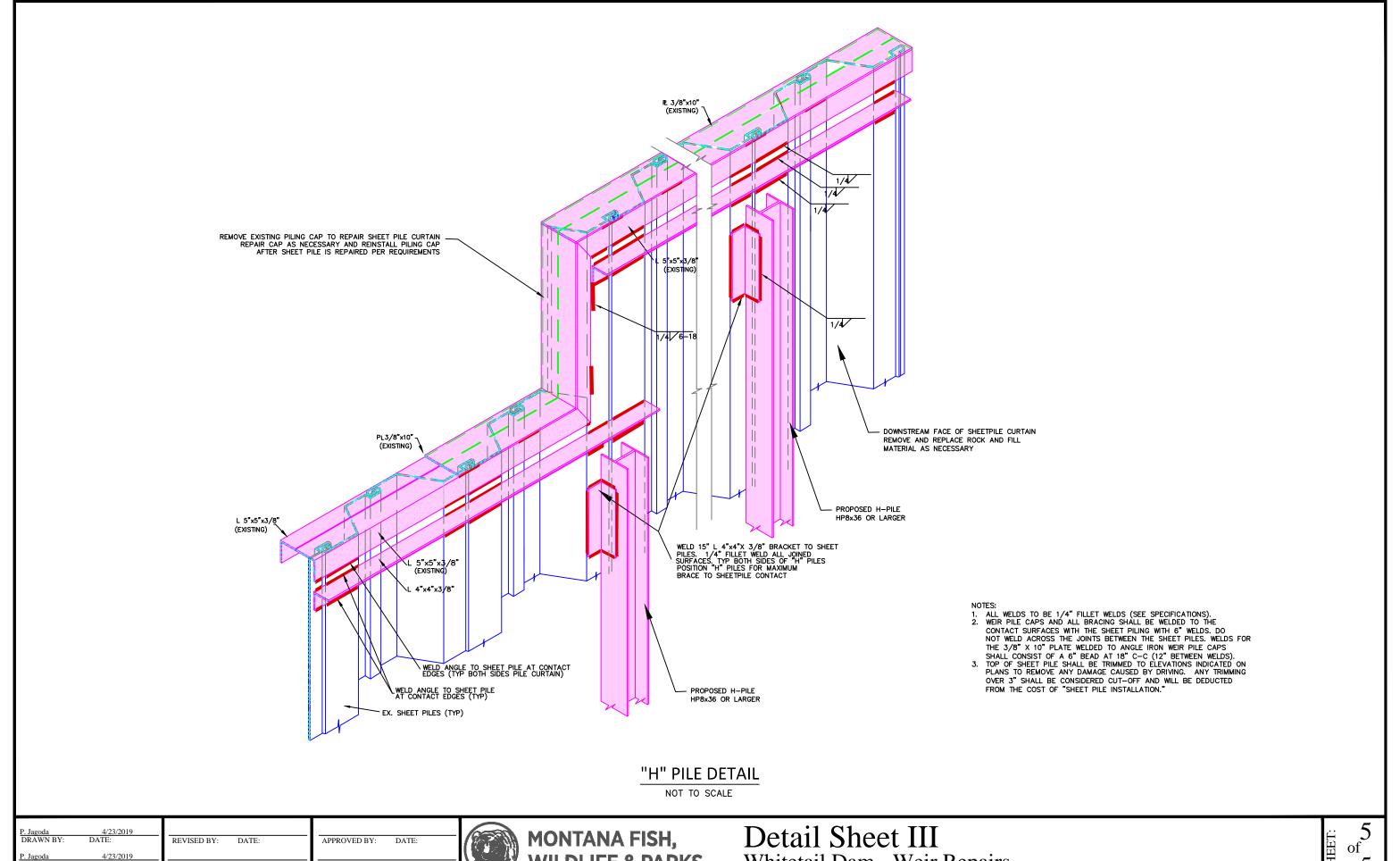
NOT TO SCALE

4/23/2019
DATE:
4/23/2019
DATE:

REVISED BY: DATE: APPROVED BY: DATE: APPROVED BY: DATE: APPROVED BY:



MONTANA FISH, Detail Sheet II WILDLIFE & PARKS Whitetail Dam - Weir Repairs



APPROVED BY: DATE:

CHECKED BY:

APPROVED BY:

DATE:

WILDLIFE & PARKS

Detail Sheet III Whitetail Dam - Weir Repairs